**Faculty and Students SQL Queries**

**/\*QUESTION 1\*/**

select count(\*) from students

where studmajor = (select Majorid from majors where major='art');

**/\*question 2\*/**

select \* from faculty

where staffid not in (select staffid from faculty\_classes);

**/\*question 3\*/**

select \* from classes c

inner join class\_rooms cr on c.ClassRoomID=cr.ClassRoomID

inner join buildings b on b.BuildingCode=cr.BuildingCode

where ElevatorAccess=1

order by c.classid asc;

**/\*question 4\*/**

select \* from students

where studentid not in (select studentid from student\_schedules);

**/\*question 5\*/**

create view studgpa as

select s.studentid,sum(s.grade\*c.credits)/sum(c.credits) as gpa

from student\_schedules s inner join classes c

on c.classid=s.classid where s.classstatus=2

group by s.studentid;

select \* from studgpa where gpa=(select max(gpa) );

select studgpa.\*,s.studmajor from studgpa

inner join students s on s.studentId=studgpa.studentid

where studgpa.gpa=(select max(gpa) from studgpa);

**/\*question 6\*/**

select fc.staffid,c.ClassID from faculty\_classes fc

join classes c on fc.classid=c.classid

where (fc.staffid,c.subjectid)in (select staffid,subjectid from faculty\_subjects

where ProficiencyRating=10);

**/\*question 7\*/**

select s2.\*

from studgpa s1 join students s2 on s1.studentid=s2.studentid

where (s2.studmajor,s1.gpa) in (select s2.studmajor,max(s1.gpa)

from studgpa s1 join students s2 on s1.studentid=s2.studentid

group by s2.studmajor);

**/\*question 8\*/**

create view studclass as

select ss.studentid,s.subjectid

from student\_schedules ss join classes c on c.classid=ss.classid

join subjects s on s.subjectid=c.subjectid;

select ss.\*,s.subjectcode

from studclass ss join studclass s on ss.studentid=s.studentid

where (ss.subjectcode,s.subjectcode ) in (select subjectcode,subjectpreq from subjects where subjectprereq is not null);

**/\*question 9\*/**

create view strttme as

select fc.staffid,min(c.StartTime) as strttime

from classes c join faculty\_classes fc on c.classid=fc.classid;

select \* from strttme where strttime=(select min(strttime));

select strttme.\*,fc.staffid from strttme

inner join faculty\_classes fc on fc.classid=strttme.classid

where strttme.strttime=(select min(strttime) from strttme);

**/\*question 10\*/**

create view countclass2 as

select count(\*) as classcount,d.DeptChair from departments d

inner join categories c on c.DepartmentID=d.DepartmentID

inner join subjects s on s.CategoryID=c.Categoryid

group by d.DeptChair;

select max(classcount),deptchair from countclass2;